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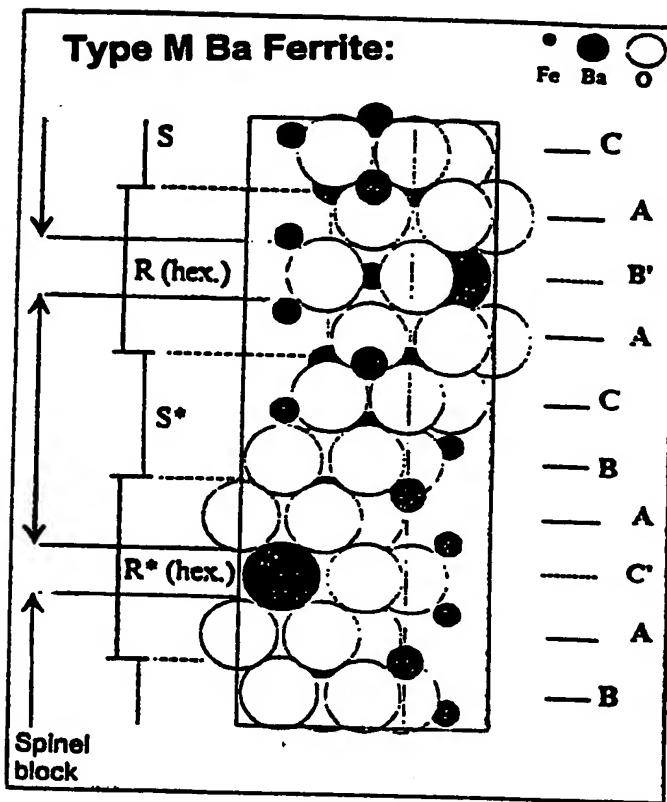
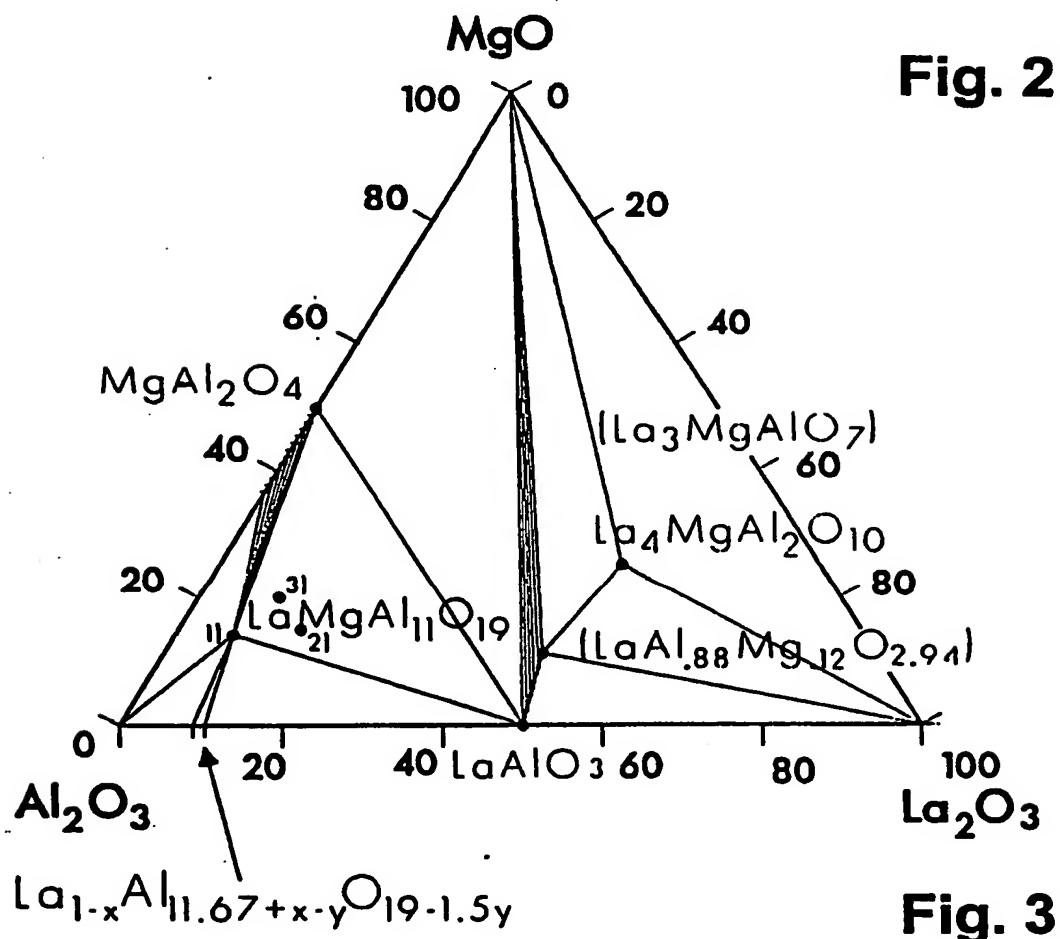
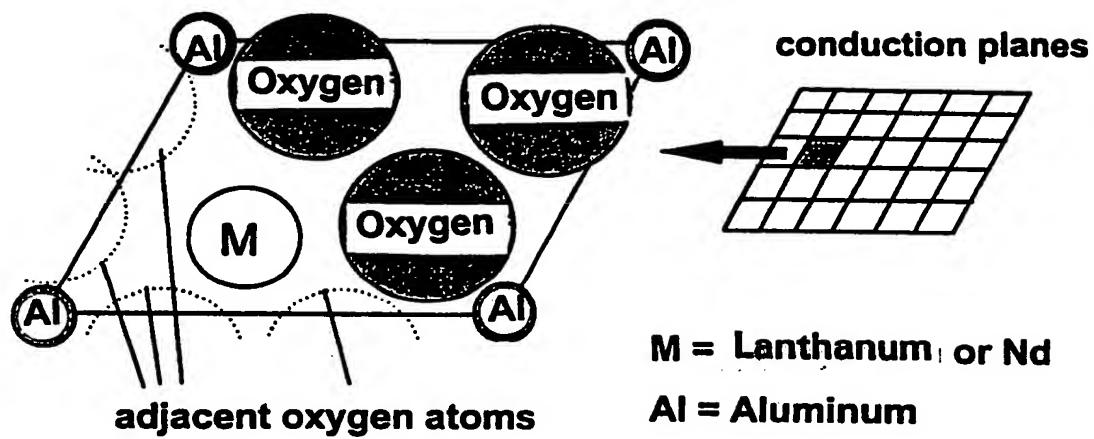


Fig. 1

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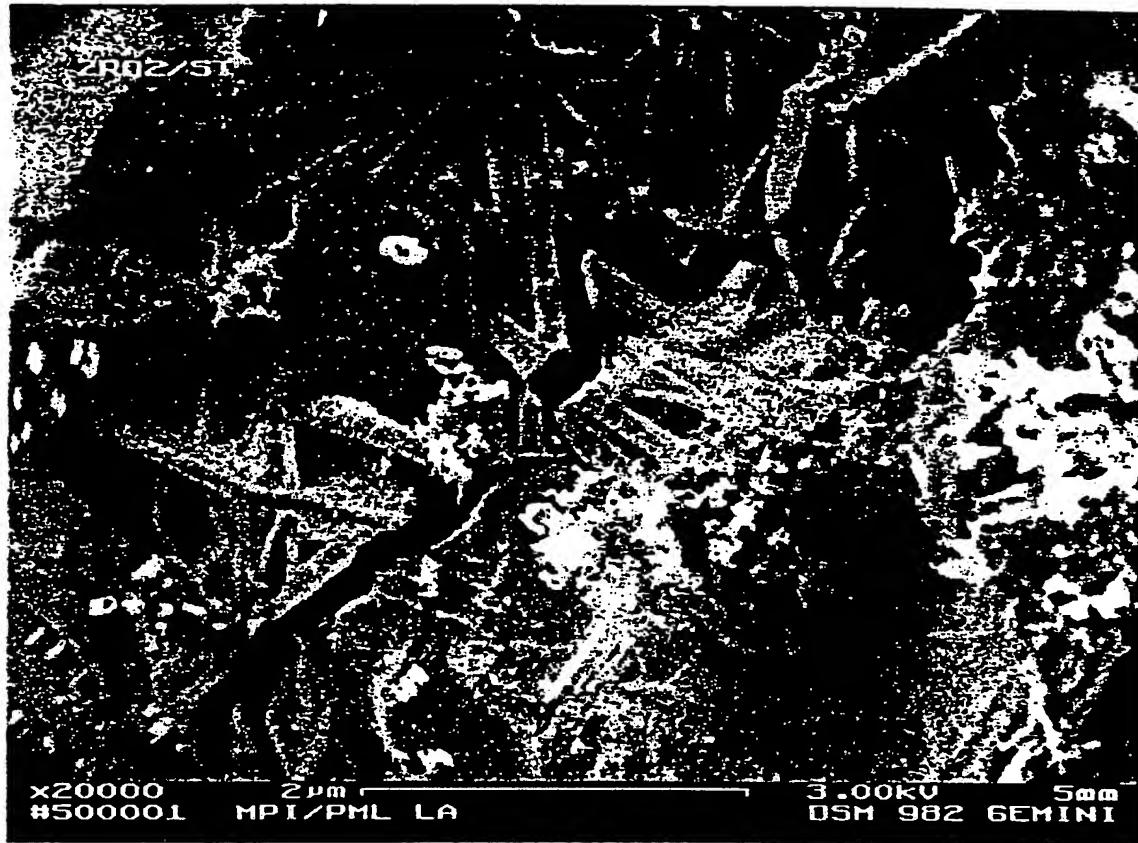
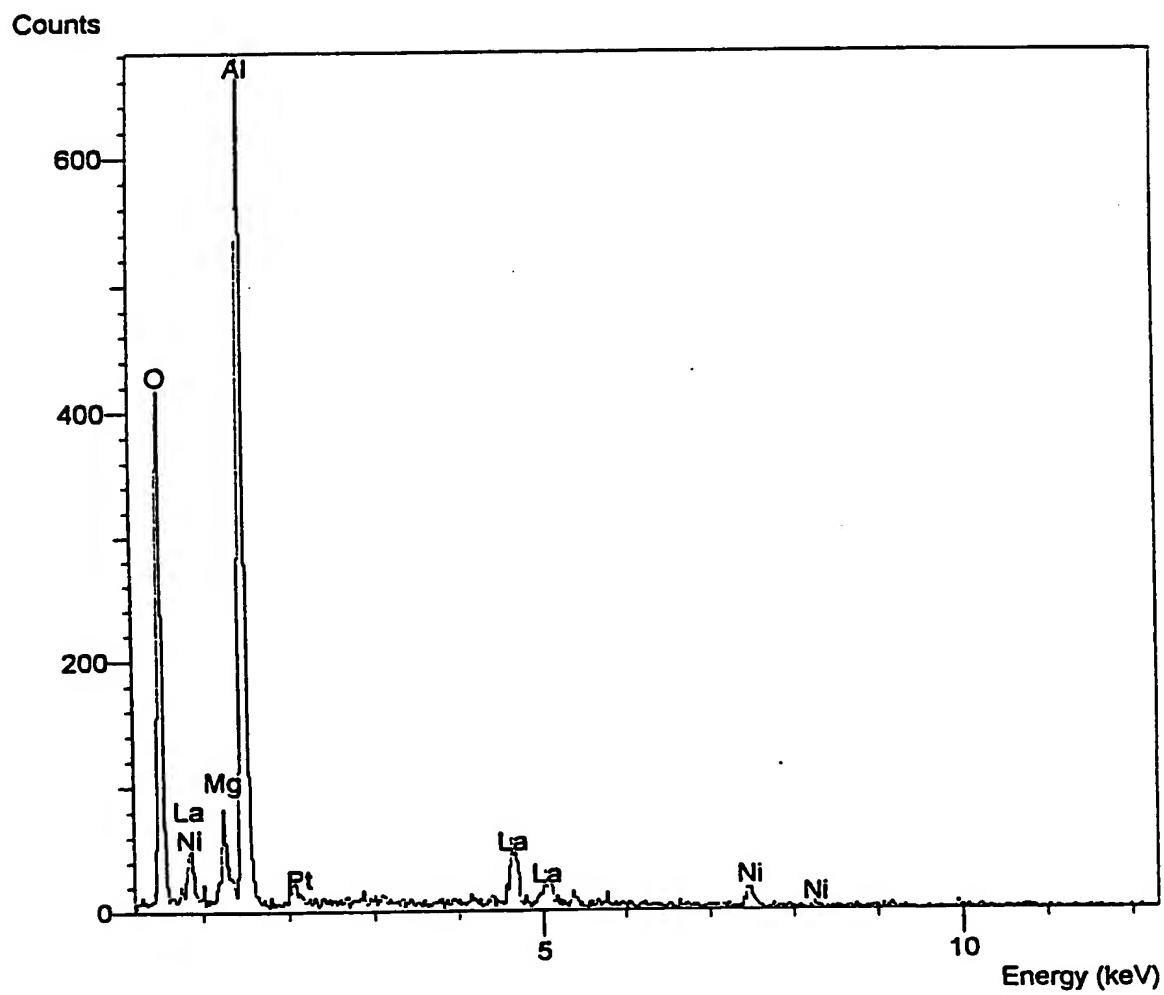


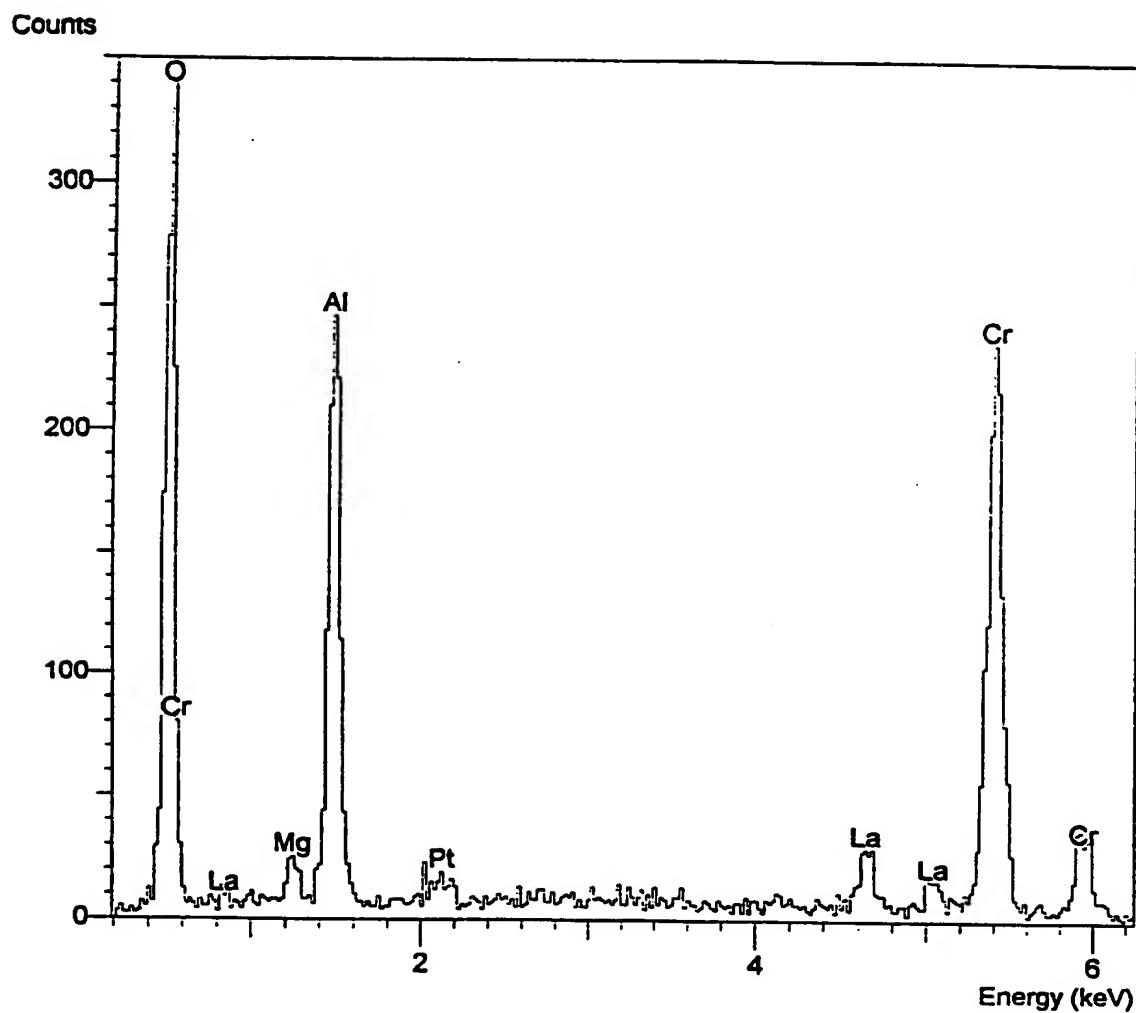
Fig. 4

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**Fig. 5**

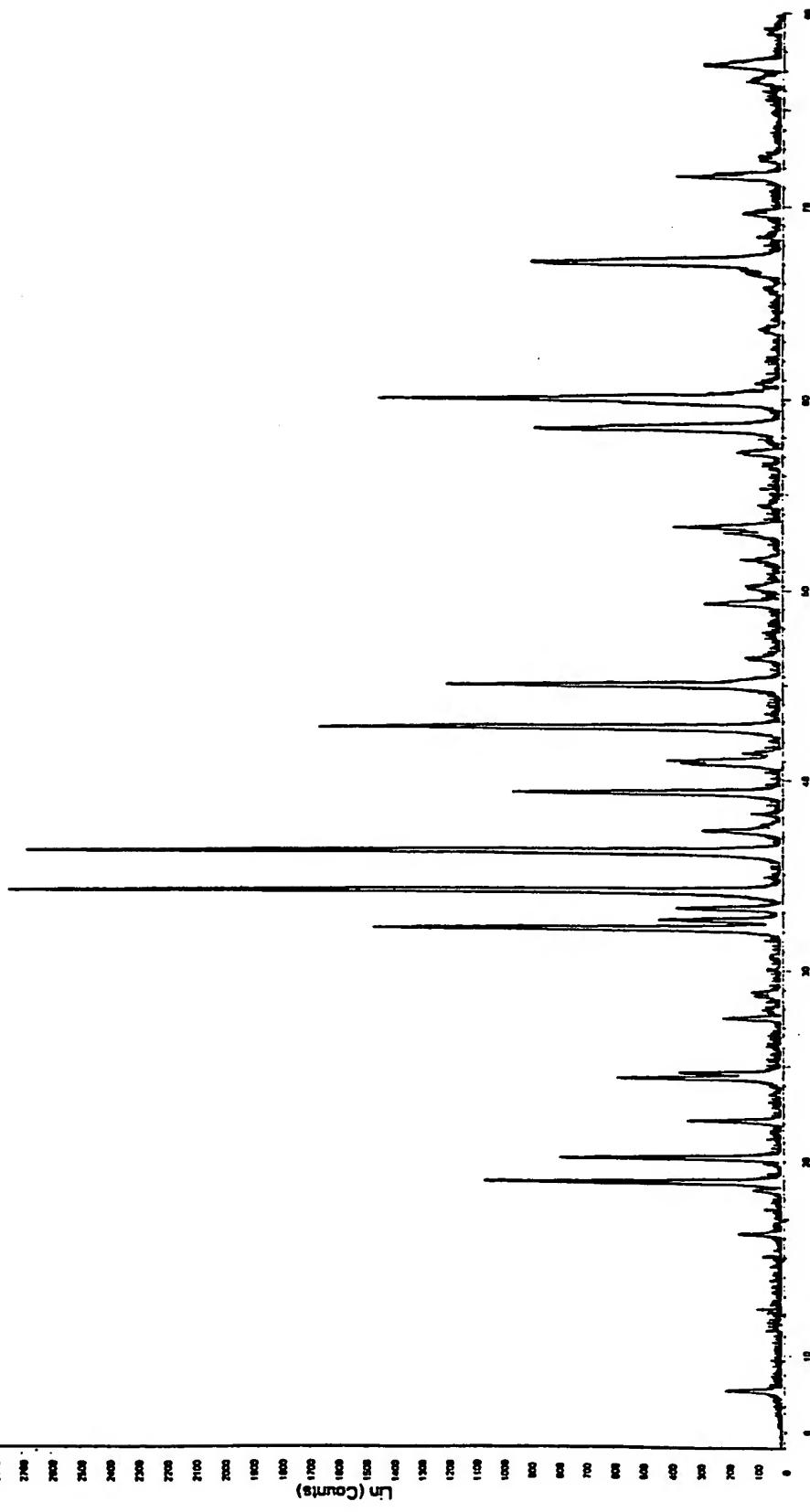
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**Fig. 6**

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D5MEAS - Program:GS2.DQL D5MEAS - Program:



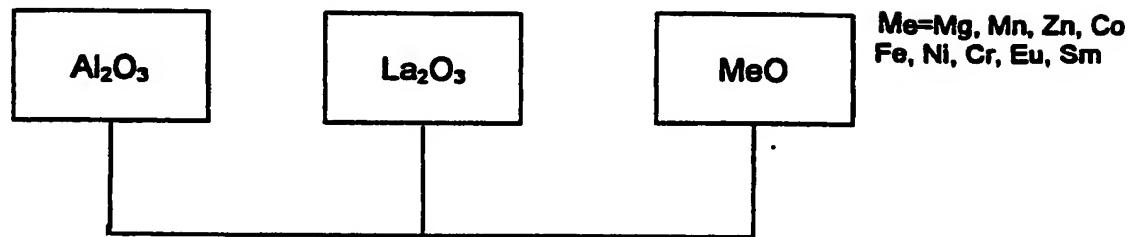
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Operations: Background 1 000,1 000 | Import

Fig. 7

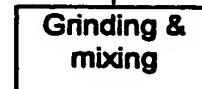
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## Mixed Oxide Method

### Starting substances

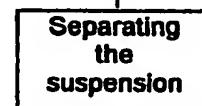


### Production of a sprayable suspension



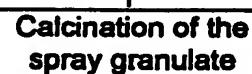
e.g. Tumbling mixer,  
drum grinder, attritor

### Granulating the powder



Spray drier

### Production of sprayed powder for thermal spraying



Temperatures  
1000-1700°C



Fig. 8

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## Wet Chemistry Method

### Starting substances

$\text{Al}_2\text{O}_3$ , Al-hydroxides  
Al-oxyhydrates

La-Salts

Me-Salts

Me=Mg, Mn, Zn, Co  
Fe, Ni, Cr, Eu, Sm

insoluble compound

soluble compounds

### Production of a sprayable suspension

Grinding & mixing

e.g. Tumbling mixer,  
drum grinder, attritor  
Solvent = water, alcohol

### Granulating the powder

Separating the suspension

Spray drier

Spray granulation

### Production of sprayed powders for thermospraying

Calcination of the spray granulate

Temperatures  
1000-1700°C, air

Application

Fig. 9

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## Production from alcoholates

Starting substances

Al-alcoholate

La-alcoholate

Me-Alcoholate

Me=Mg, Mn, Zn, Co  
Fe, Ni, Cr, Eu, Sm

Precipitating and reacting  
the alcoholates

Precipitating the  
oxide

Addition of an aqueous  
solution in the mixing vessel

Production of a  
sprayable suspension

Addition of dispersing  
agents, binders

Granulating the  
powder

Spray granulation

Spray drier

Production of sprayed  
powders for thermospraying

Calcination of the  
spray granulate

Temperatures  
1000-1700°C

Application

Fig. 10

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## Production of powder highly capable of crystallisation

### Starting substances

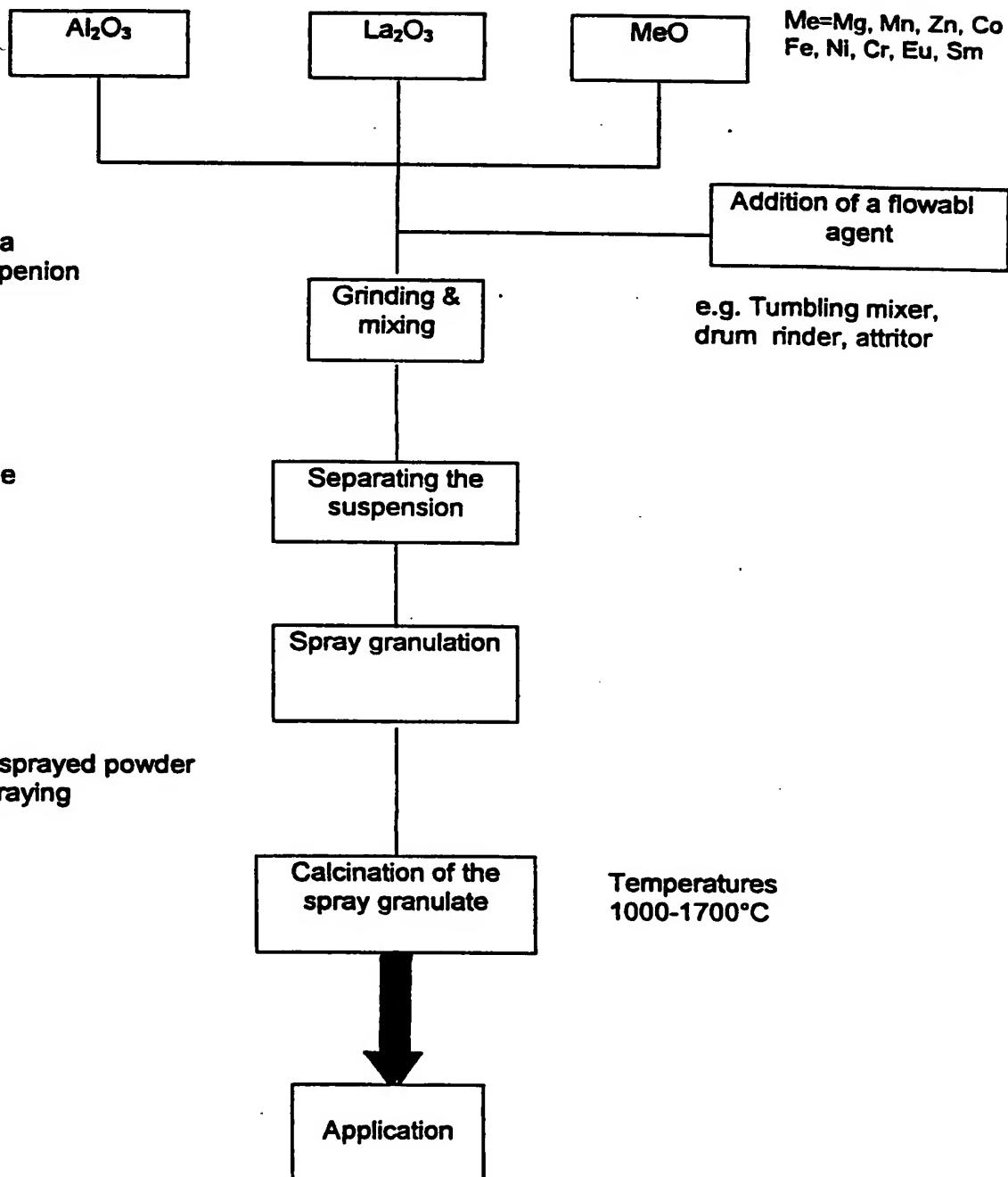


Fig. 11

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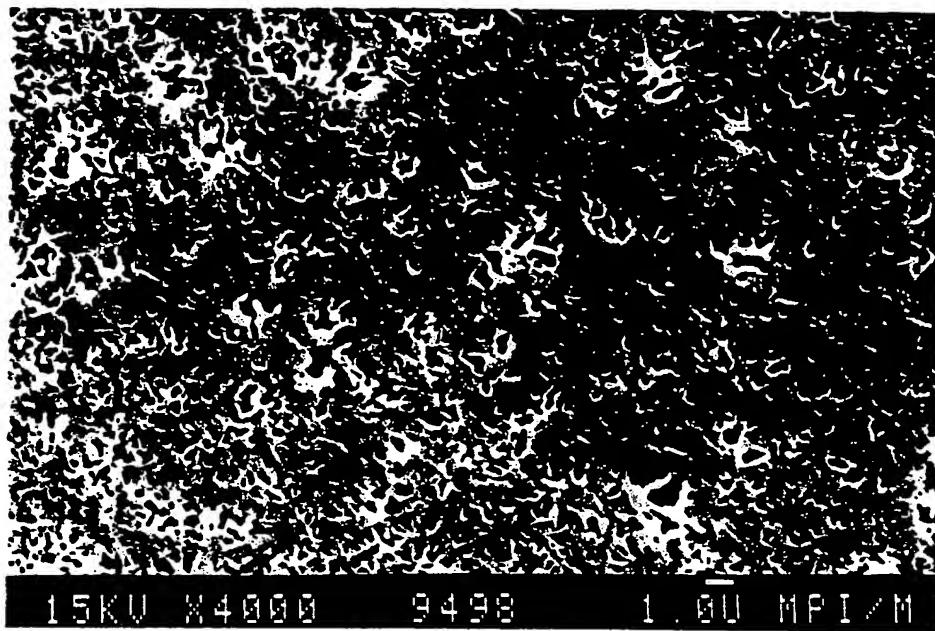


Fig. 12

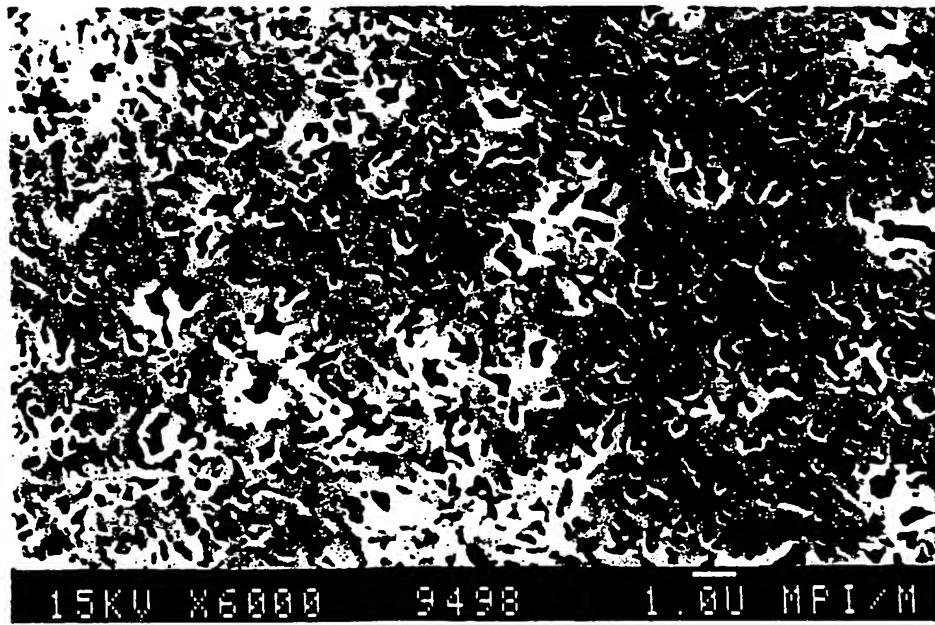


Fig. 13

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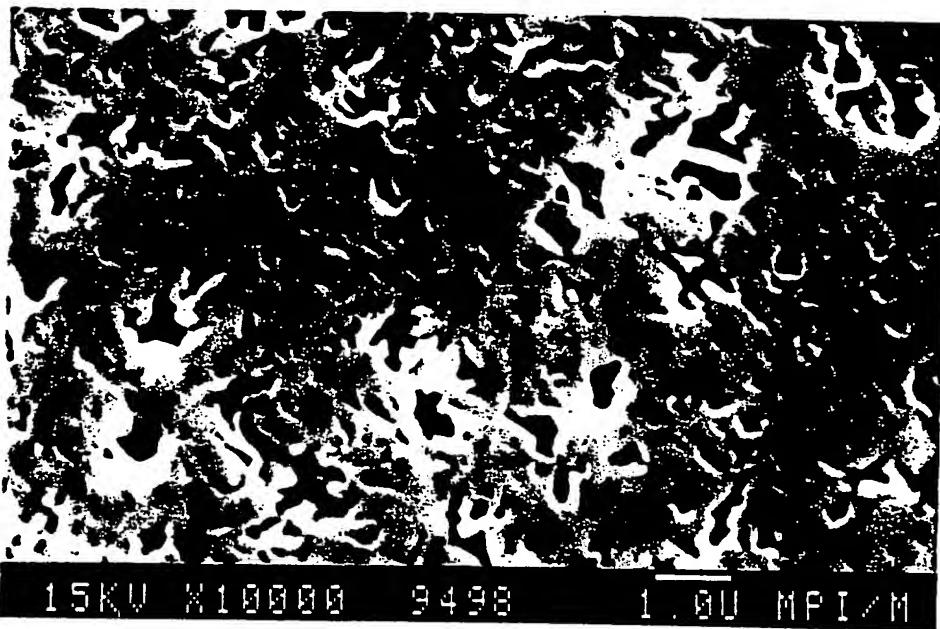


Fig. 14

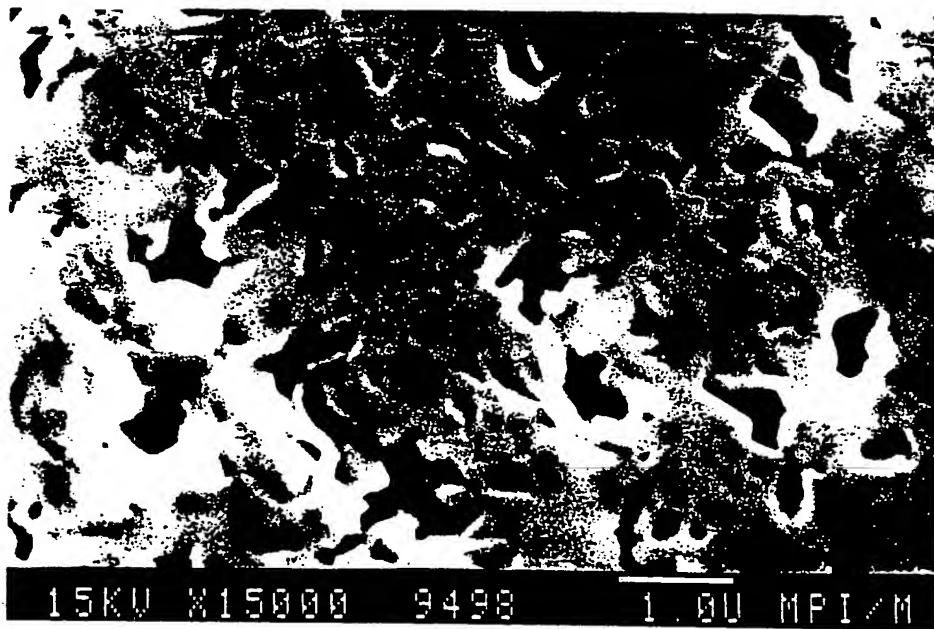


Fig. 15